



Service documents



06-2015

SERVICE MANUAL

The latest version of service manual is available at:
www.dudek.eu/en/service-and-inspections/

TECHNICAL INSPECTIONS

Full inspection is recommended every 24 months, if not advised otherwise by the inspecting person due to current paraglider condition.

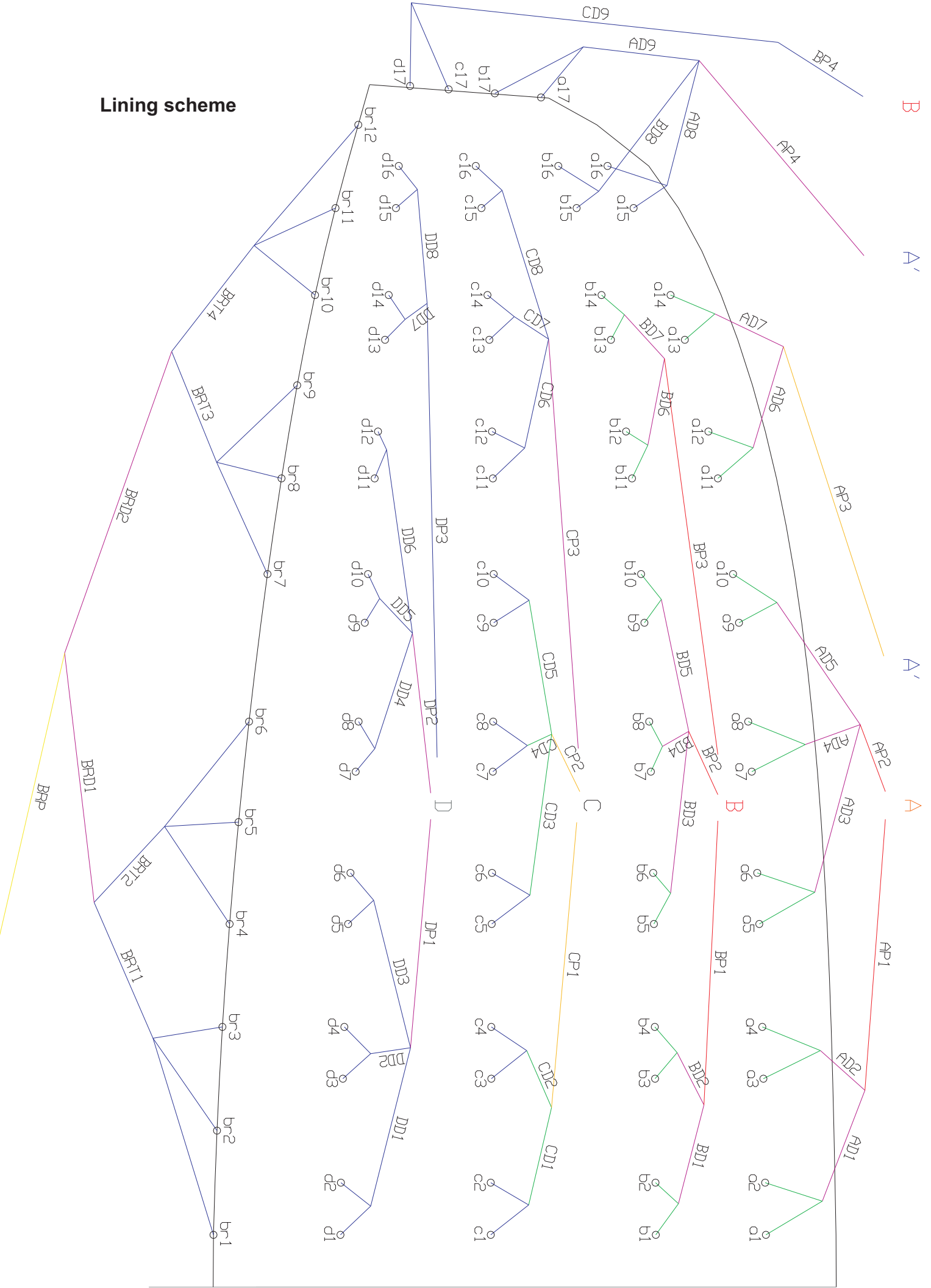
Paragliders in commercial use (training and tandem flights) should be undergoing Full Inspection every 12 months (excluding first 24-month period after purchase).

Technical inspection is carried out by the manufacturer or authorised person.

TECHNICAL DATA

Universal	23	25,5	28	31
Certification EN	B	B	B	B
Number of cells	50	50	50	50
Surface area (flat) [m ²]	23,00	25,50	28,00	31,00
Surface area (projected) [m ²]	19,83	21,98	24,14	26,72
Span (flat) [m]	10,83	11,40	11,95	12,57
Span (projected) [m]	8,71	9,17	9,61	10,11
Aspect Ratio (flat)	5,10			
Aspect Ratio (projected)	3,83			
Sink rate [m/s]	min = 1,1; trim = 1,3 - 2,2; max = 3,0			
Speed [km/h]	min = 23; trim = 37 - 52; max = 57			
Max. cord [cm]	261,20	275,10	288,20	303,30
Min. cord [cm]	60,10	63,30	66,30	69,80
Distance pilot to wing [m]	6,82	7,18	7,53	7,92
Total line length [m]	344,01	362,82	380,74	401,20
Weight range EN [kg]	60-75	70-95	90-115	110-140
Weight range DGAC [kg]	60-90	70-115	90-140	110-170
Weight [kg]	6,1	6,6	6,9	7,5
Lines	Technora: 1,2 & 1,3 & 1,5 & 1,8 & 2,3			
Fabric	Dominico tex 34 & 41 g/m ²			
	Dominico Tex Hard 40 g/m ²			
	SR Scrim, SR Laminate 180 g/m ²			
Risers	PASAMON - Bydgoszcz, Polska			

Lining scheme



Length of the lines

Universal – 23

The tables / Tables / Tabele:

The individual lengths and type of line

La longueur et le type de chaque ligne

Długości i rodzaj poszczególnych linek

	a	b	c	d	br
1	541	536	456	463	1320
2	508	505	424	420	1083
3	516	510	430	448	988
4	532	528	448	442	1224
5	528	523	445	421	1110
6	498	495	416	451	1136
7	508	501	425	444	1176
8	506	501	424	406	1005
9	482	471	399	422	951
10	501	493	419	413	1191
11	413	402	408	395	1113
12	371	365	360	407	1032
13	397	378	386	395	
14	384	370	358	321	
15	377	344	316	322	
16	308	292	297	295	
17	686	737	390	410	

The total lengths

Longueur des suspentes

Sumaryczna długość linek


	a	b	c	d	br
1	6227	6154	6272	6459	7404
2	6194	6123	6240	6416	7167
3	6177	6108	6224	6363	7072
4	6194	6127	6243	6357	6914
5	6199	6140	6255	6381	6801
6	6168	6112	6226	6411	6826
7	6133	6082	6193	6380	6690
8	6130	6083	6192	6343	6518
9	6145	6104	6211	6291	6464
10	6164	6126	6231	6282	6352
11	6107	6064	6189	6280	6274
12	6064	6027	6141	6292	6193
13	5999	5975	6056	6169	
14	5986	5967	6028	6095	
15	5836	5823	5964	5976	
16	5771	5776	5945	5949	
17	5707	5758	5710	5730	

	AD	BD	CD	DD	BRT
1	1687	1671	1777	2256	1665
2	1662	1652	1756	2175	1271
3	2318	2280	2399	2220	985
4	2272	2244	2357	2113	632
5	2311	2295	2401	2045	
6	1402	1349	1604	2061	
7	1310	1284	1493	790	
8	1147	1167	1470	671	
9	704		4930		

	AP	BP	CP	DP	BRD
1	4034	3982	4069	3765	2017
2	3388	3372	3441	3849	2092
3	4326	4347	4207	5008	
4	4342	410			

BRP 2440 ALC+ 5225

Technora 7343-090-005: 

Technora 7343-140-006: 

Technora 7343-190-024: 

Technora 7343-280-011: 

Technora 7343-280-018: 

Technora 7343-420-041: 

Dyneema 12550: **XXXX**

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the maillon (tolerancy +/- 10 mm)

Length of the lines

Universal – 25,5

The tables / Tables / Tabele:

The individual lengths and type of line

La longueur et le type de chaque ligne

Długości i rodzaj poszczególnych linek

	a	b	c	d	br
1	570	565	480	488	1390
2	536	532	447	443	1141
3	543	537	452	472	1041
4	561	557	472	466	1288
5	556	551	468	443	1169
6	525	521	438	475	1196
7	535	527	447	467	1238
8	533	528	446	428	1058
9	507	496	419	445	1002
10	527	520	441	435	1254
11	435	423	429	416	1172
12	391	385	379	429	1089
13	418	398	406	416	
14	404	390	377	338	
15	397	362	333	339	
16	324	307	313	310	
17	723	776	411	431	

The total lengths

Longueur des suspentes

Sumaryczna długość linek


	a	b	c	d	br
1	6577	6505	6628	6821	7807
2	6543	6472	6595	6777	7558
3	6526	6458	6580	6722	7458
4	6545	6478	6600	6716	7294
5	6551	6494	6614	6742	7175
6	6520	6464	6584	6774	7202
7	6483	6434	6550	6743	7056
8	6480	6434	6549	6704	6876
9	6497	6458	6569	6650	6820
10	6517	6481	6591	6641	6703
11	6461	6416	6547	6639	6621
12	6416	6377	6497	6652	6538
13	6348	6323	6408	6522	
14	6334	6314	6378	6444	
15	6177	6162	6310	6319	
16	6108	6112	6291	6290	
17	6040	6093	6041	6062	


	AD	BD	CD	DD	BRT
1	1775	1759	1870	2374	1752
2	1752	1740	1850	2290	1342
3	2439	2399	2525	2340	1036
4	2393	2363	2482	2224	667
5	2434	2418	2529	2154	
6	1476	1421	1689	2171	
7	1380	1353	1572	832	
8	1208	1229	1548	706	
9	741		5241		

	AP	BP	CP	DP	BRD
1	4267	4216	4308	3985	2122
2	3590	3579	3651	4077	2204
3	4585	4607	4459	5299	
4	4601	410			

BRP 2580 ALC+ 5510

Technora 7343-090-005: 

Technora 7343-140-006: 

Technora 7343-190-024: 

Technora 7343-280-011: 

Technora 7343-280-018: 

Technora 7343-420-041: 

Dyneema 12550: **XXXX**

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the maillon (tolerancy +/- 10 mm)

Length of the lines

Universal – 28

The tables / Tables / Tabele:

The individual lengths and type of line

La longueur et le type de chaque ligne

Długości i rodzaj poszczególnych linek

	a	b	c	d	br
1	597	592	502	511	1456
2	562	558	469	464	1196
3	568	562	473	494	1092
4	588	583	495	489	1349
5	583	577	491	464	1225
6	550	547	459	498	1254
7	560	552	468	489	1297
8	558	553	468	449	1109
9	531	520	439	466	1051
10	553	544	463	456	1314
11	456	444	450	436	1228
12	409	403	397	450	1184
13	438	417	426	436	
14	424	409	395	355	
15	416	379	349	355	
16	339	322	328	325	
17	757	813	431	452	

The total lengths

Longueur des suspentes

Sumaryczna długość linek


	a	b	c	d	br
1	6920	6843	6972	7171	8190
2	6885	6810	6939	7125	7930
3	6868	6796	6924	7068	7826
4	6888	6818	6945	7063	7676
5	6901	6835	6961	7091	7552
6	6869	6805	6930	7125	7581
7	6831	6773	6895	7093	7375
8	6829	6774	6894	7052	7187
9	6847	6799	6916	6996	7129
10	6868	6824	6940	6987	7006
11	6809	6756	6893	6986	6921
12	6762	6715	6841	6999	6877
13	6691	6658	6747	6868	
14	6676	6650	6716	6787	
15	6509	6485	6646	6655	
16	6437	6433	6625	6625	
17	6357	6412	6357	6378	

	AD	BD	CD	DD	BRT
1	1859	1842	1959	2486	1836
2	1837	1825	1939	2400	1428
3	2555	2513	2645	2453	1085
4	2507	2476	2601	2330	700
5	2552	2535	2651	2257	
6	1547	1489	1769	2276	
7	1446	1417	1647	872	
8	1274	1288	1623	740	
9	777		5536		

	AP	BP	CP	DP	BRD
1	4494	4440	4536	4199	2222
2	3793	3775	3850	4299	2281
3	4836	4853	4699	5580	
4	4848	410			

BRP 2715 ALC+ 5785

Technora 7343-090-005: 

Technora 7343-140-006: 

Technora 7343-190-024: 

Technora 7343-280-011: 

Technora 7343-280-018: 

Technora 7343-420-041: 

Dyneema 12550: **XXXX**

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the maillon (tolerancy +/- 10 mm)

Length of the lines

Universal – 31

The tables / Tables / Tabele:

The individual lengths and type of line

La longueur et le type de chaque ligne

Długości i rodzaj poszczególnych linek

	a	b	c	d	br
1	628	622	529	537	1532
2	592	588	494	489	1259
3	597	591	498	520	1150
4	619	614	521	514	1419
5	613	607	516	488	1289
6	579	575	484	524	1320
7	589	581	492	515	1365
8	588	582	492	472	1167
9	559	547	462	490	1107
10	582	573	487	480	1382
11	480	467	473	459	1292
12	431	424	418	473	1247
13	461	439	448	459	
14	446	430	415	373	
15	438	399	367	373	
16	357	339	345	342	
17	797	855	453	475	

The total lengths

Longueur des suspentes

Sumaryczna długość linek


	a	b	c	d	br
1	7306	7225	7360	7566	8629
2	7270	7190	7325	7517	8355
3	7254	7177	7311	7459	8246
4	7275	7200	7334	7454	8089
5	7290	7220	7352	7485	7960
6	7256	7188	7319	7521	7991
7	7217	7155	7283	7488	7774
8	7215	7157	7283	7446	7576
9	7235	7184	7307	7387	7516
10	7258	7210	7332	7377	7388
11	7195	7139	7283	7377	7298
12	7146	7096	7228	7391	7253
13	7071	7036	7130	7253	
14	7056	7027	7097	7167	
15	6879	6854	7023	7028	
16	6803	6799	7001	6997	
17	6719	6777	6718	6740	


	AD	BD	CD	DD	BRT
1	1956	1937	2060	2615	1931
2	1934	1921	2042	2526	1505
3	2687	2644	2782	2583	1141
4	2638	2605	2737	2451	738
5	2687	2668	2791	2375	
6	1627	1567	1862	2396	
7	1522	1492	1733	918	
8	1341	1355	1708	779	
9	817		5875		

	AP	BP	CP	DP	BRD
1	4752	4695	4796	4439	2337
2	4020	3999	4079	4547	2404
3	5117	5136	4973	5896	
4	5130	410			

BRP 2870 ALC+ 5945

Technora 7343-090-005: 

Technora 7343-140-006: 

Technora 7343-190-024: 

Technora 7343-280-011: 

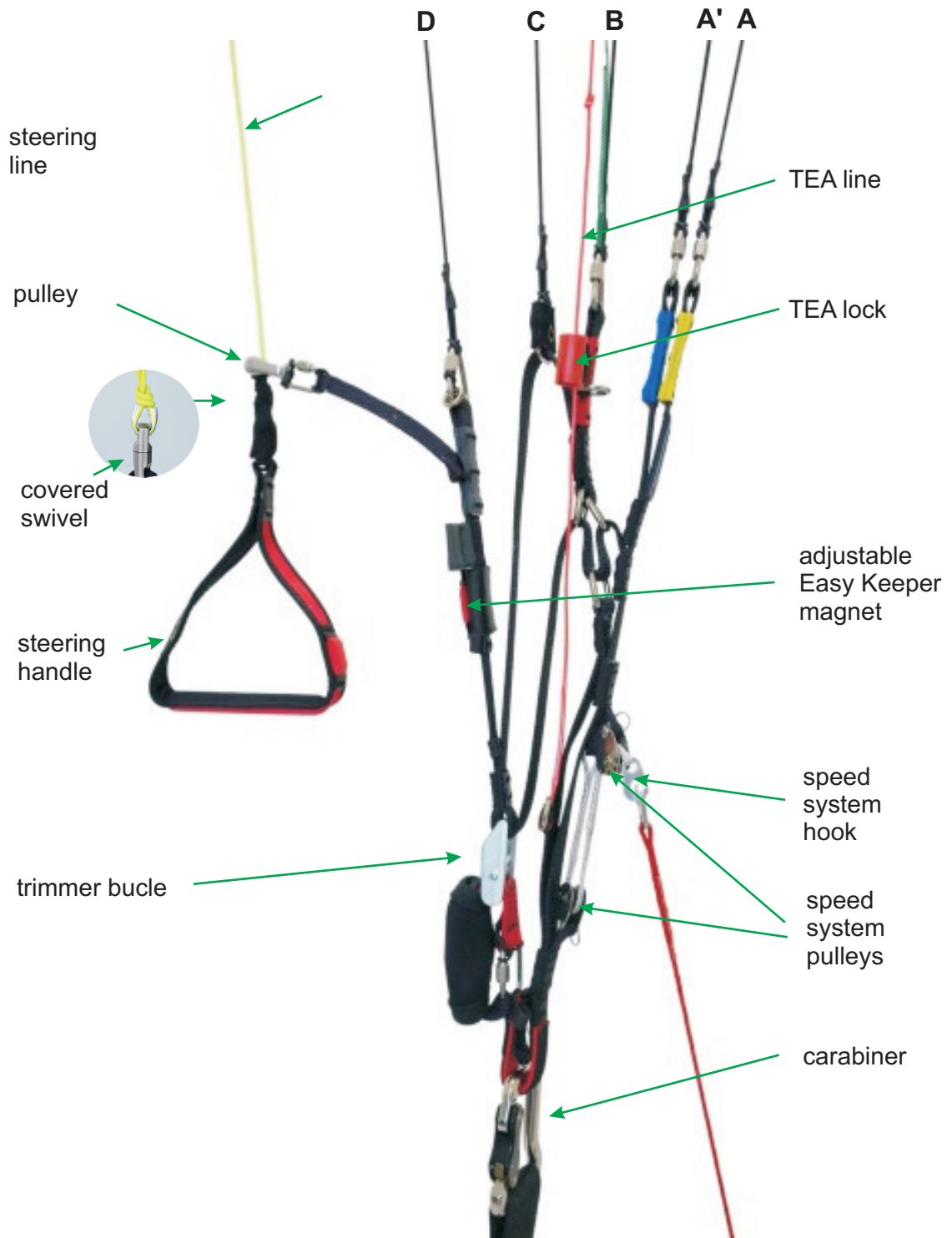
Technora 7343-280-018: 

Technora 7343-420-041: 

Dyneema 12550: **XXXX**

Total suspension lines length, measured from the lower surface of the canopy to the inside edge of the maillon (tolerancy +/- 10 mm)

Universal risers



Other informations:

- number of risers: 4 (with A riser split into A and A')
- trimmers: Closed

Risers

Trim speed

Slowest speed, minimum sink.
Take-off setting

length of the risers (with maillons)

trim position

size 31, 28, 25.5, 23:

A - 460

A' - 460

B - 445

C - 420

D - 395



Full speed

Increased speed and sink

length of the risers (with maillons)

speed system

size 31, 28, 25.5, 23:

A - 380

A' - 380

B - 385

C - 390

D - 395



